



 PRODUCT-DETAILS

S403E-C50

Miniature Circuit Breaker - S400 - 3P - 50 A - C - (230 V AC) 6 kA



General Information

Extended Product Type	S403E-C50
Product ID	2CCS553001R0504
EAN	7612270102730
Catalog Description	Miniature Circuit Breaker - S400 - 3P - 50 A - C - (230 V AC) 6 kA
Long Description	<p>SMISLINE TP S400E are a current limiting miniature circuit breakers. They have two different tripping mechanisms, the delayed thermal tripping mechanism for overload protection and the electromechanic tripping mechanism for short circuit protection.</p> <p>They are available in different characteristics (B and C), configurations (1P,1P+N,2P,3P,3P+N), breaking capacities (6 kA at 230/400 V AC) and rated currents (up to 63A). MCBs of the product range S400E are comply with IEC/EN 60898-1. The pluggable solution is only for the SMISLINE TP System, allowing the use for commercial, industrial, and critical power applications.</p>

ABB EcoSolutions

ABB EcoSolutions	Yes
EcoSolutions Profile	9AKK108469A7869
Recyclability Rate of the Product acc. to EN45555	Design for Closing Resource Loops - Standard EN45555 - 92.73 %
ABB Site Meeting Group	No non-hazardous waste is sent to a landfill

Waste To Landfill Target

Sustainable Material Content in Packaging (wt. %)	Recycled Cardboard - 18.12 % Recycled Cardboard - 67.66 % Chemically Recycled Polymer - 0 %
Extended Product Lifetime	Product Durability
End Of Life Disassembling Instructions	9AKK108469A6908
Environmental Product Declaration - EPD	9AKK108469A5735

Technical

Rated Operational Current (I_e)	50 A
Power Supply Connection	Arbitrary
Contact Position Indication	Red ON / Green OFF
Energy Limiting Class	3
Electrical Endurance	10000 cycle
Mechanical Endurance	10000 cycle
Number of Protected Poles	3
Number of Poles	3P
Tightening Torque	2.8 N·m
Release Type	C
Screw Terminal Type	Failsafe Bi-directional Cylinder-lift Terminal
Actuator Marking	I / O
Recommended Screw Driver	Pozidriv 2
Accessories Available	Yes
Connecting Capacity	Flexible 0.75 ... 25 mm ² Rigid 0.75 ... 35 mm ²
Terminal Type	Screw Terminals

Electrical

Tripping Characteristic	C
Rated Operational Voltage	acc. to IEC 60898-1 400 V
Operational Voltage	Minimum 12 V AC
Rated Insulation Voltage (U_i)	acc. to IEC/EN 60664-1 440 V
Rated Impulse Withstand Voltage (U_{imp})	4 kV
Input Voltage Type	AC
Rated Current (I_n)	50 A
Rated Short-Circuit Capacity	(230 V AC) 6 kA (230 / 400 V AC) 6 kA
Frequency (f)	50 ... 60 Hz
Rated Frequency (f)	50 ... 60 Hz
Power Loss	Total 12.9 W
Overvoltage Category	III

Material Compliance

RoHS Declaration	9AKK107991A9803
RoHS Information	Following EU Directive 2011/65/EU and Amendment 2015/863 July 22, 2019
RoHS Date	20210407
REACH Declaration	9AKK108467A9561
REACH Information	True - contains substances > 0.1 mass percentage
REACH Date	20230417
Conflict Minerals Reporting Template (CMRT)	9AKK108468A3363
WEEE Category	5. Small Equipment (No External Dimension More Than 50 cm)
WEEE B2C / B2B	Business To Business

Environmental

Ambient Air Temperature	Operation -25 ... 60 °C
Reference Ambient Air Temperature	30 °C
Degree of Protection	IP20
Pollution Degree	4
Resistance to Vibrations	1 mm 2 ... 13.2 Hz
Environmental Information	9AKK108467A9561

Dimensions

Width in Number of Modular Spacings	3
Product Net Width	54 mm
Product Net Height	91 mm
Product Net Depth / Length	82 mm
Product Net Weight	322 g
Built-In Depth (t ₂)	82 mm
Dimension Diagram	9AKK107492A6192

Engineering

EPLAN Data	9AAC128475_EPLAN
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Ordering

Package Level 1 Units	carton 4 piece
Package Level 1 Gross Weight	1360 g
E-Number (Switzerland)	809184809

Certificates and Declarations

Declaration of Conformity - CE	9AKK107991A9633
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Installation

Instructions and Manuals	2CCC451019M0109
Mounting Position	Any

Popular Downloads

Data Sheet, Technical Information	9AKK107492A6192
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External Classifications and Standards

ETIM 9	EC000042 - Miniature circuit breaker (MCB)
ETIM 10	EC000042 - Miniature circuit breaker (MCB)
UNSPSC	39121603
eClass	V11.0 : 27141901
Object Classification Code	FC
Standards	IEC/EN 60898-1

Categories

Low Voltage Products and Systems → Modular DIN Rail Products → Plug-in Distribution Systems → Plug-in Distribution Systems → Miniature Circuit Breakers MCBs

